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ABSTRACT

Sixty-one placement and career planning professionals at Michigan's 2- and 4-year colleges and universities rated the job market for academic majors at their respective institutions. Their perceptions of the labor market were gained from a variety of sources, including campus interviewing, statistics on employer requests by major and degree level, job listings, discussions with employers, and responses to follow-ups of recent graduates. Directors of career development and placement services at each institution were sent a packet of material with surveys for each staff member. The survey contained a list of all academic programs specific to each institutions. They were asked to rate this year's expected labor market for each program they advised or were familiar with. Five tables present the results according to: summary of demand for major classification of instructional programs (CIP) groups by degree level; demand ratings for specific programs at the certificate/associate level according to CIP numbers; demand for specific programs at the bachelors level according to CIP numbers; demand ratings for specific programs at the masters level according to CIP numbers; and demand ratings for specific programs at the doctoral/professional level according to CIP numbers. Results indicate there should be a relatively stable job market this year and graduates should find good employment opportunities (though some from a few academic programs may be unhappy). (SM)

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Eastern Michigan University	6	Muskegon County Community College	1
Ferris State University	1	North Central Michigan College	1
Grand Rapids Junior College	1	Northern Michigan University	1
Grand Valley State College	2	Northwood Institute	1
Henry Ford Community College	1	Olivet	1
Highland Park Community College	1	Saginaw Valley State University	3
Jackson Community College	1	Siena Heights College	1
Jordon College	1	Spring Arbor College	1
Kalamazoo College	1	Suomi College	1
Kalamazoo Valley Community College	1	University of Michigan - Dearborn	1
Kellogg Community College	1	Walsh College of Accounting and Business	1
Kirtland Community College	1	West Shore Community College	4
Lake Superior State University	1	Western Michigan University	2

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Estimated Demand for Michigan's College and University Graduates of 1989

Several efforts are made each year to assess the short-term labor market for college graduates. One effort, the Recruiting Trends report, focused on the expectations of employers from major business, industry, government, and educational institutions when recruiting on college campuses. Results from the latest edition of this study have indicated that employment opportunities will increase modestly (by approximately 3.1%) in 1989.

In the second study, placement and career planning professionals at Michigan's two and four-year colleges and universities rated the job market for academic majors at their respective institutions. Their perceptions of the labor market were gained from a variety of sources, including campus interviewing statistics on employer requests by major and degree level, job listings, discussions with employers, responses to follow-ups of recent graduates, and other reliable sources.

Participants

Directors of career development and placement services at every Michigan two- and four-year campuse were sent a packet of material that contained instructions and surveys for each member of their staff. Sixty-one (61) professionals, representing 42 institutions, returned surveys. The institutional composition of the respondents was 40% (17) two-year institutions, 31% (13) private four-year institutions, and 29% (12) four-year public institutions.

Survey

The survey contained a list of all academic programs specific to each institution. The programs were listed according to the classification of instructional programs (CIP) code that the Michigan State Board of Education uses to group programs of similar program content. Placement professionals were asked to rate this year's expected labor market for each program they advised or were familiar with employment conditions. The five-point Likert rating scale ranged from 1- surplus job market (more college graduates than jobs available) to 5 - excellent job market (more job opportunities than college graduates available). Provision was made for rating programs where graduates typically continue their education at a different academic level: particularly appropriate for selected two-year graduates who continue at a four-year institution.

Results

Average ratings for the fifty major CIP groups are reported in Table 1 and the specific programs for each degree level are presented in Tables 2 to 4, respectively. Academic programs with the same CIP numbers have been aggregated, even if the program titles varied between institutions. Programs where only a few respondents (one to five) have reported ratings have not been collapsed into a composite code because the content of individual programs may vary widely between institutions. All ratings have been included for completeness; however, readers should exercise care when generalizing from specific ratings where the number of respondents is small.

The rating means can be interpreted as follows:

Means	Implication
$\geq$ 4.50	Many more job opportunities than graduates available.
3.51-4.49	Slightly more job opportunities than graduates available.
2.51-3.50	About as many jobs available as graduates.
1.51-2.50	Slightly more graduates than available jobs.
$\leq$ 1.50	Many more graduates than available jobs.

Consistent with this year, results from surveys of employers, placement professionals expect a relatively stable job market this year, performing as well as or slightly better than last year. Ratings tended to fall between 2.5 and 4.0, suggesting that graduates can expect to find good employment opportunities. However, some graduates from a few academic programs may be unhappy with their options.

A thorough comparison with last year's ratings was limited because the mix of respondents differed slightly from last year. Generally, there appeared to be very little change in the ratings from the previous year. Engineering, technical fields, mathematics, business, and health services continue to experience a strong labor market. A noticeable upward movement in the ratings for many liberal arts and social science majors was observed. This particular trend in the liberal arts programs matches expectations of other observers of the college labor market who expect liberal arts graduates to do better in the labor market over the next several years.

Since ratings reflect the demand within a specific field of study, graduates in programs that received low ratings need to pursue a comprehensive job search. Consideration needs to be given to a wider array of potential job opportunities where their skills can be applied. To pursue a wider range of employment opportunities, graduates need to utilize job search strategies, such as networking, that can allow them to remain flexible.

Table 1: Summary of Demand for Major CIP Groups by Degree Level

CIP	Program Name	Certificate\ Associate	Bachelor	Master	Doctoral\ Professional
0	Apprentice Training	2.50	N\A	N\A	N\A
1	Agribusiness and Agricultural Production	3.00	3.00	N\A	N\A
2	Agricultural Sciences	3.00	3.00	N\A	N\A
3	Renewable Natural Resources	2.25	2.69	3.50	N\A
4	Architecture and Environmental Design	3.00	2.14	N\A	N\A
5	Area and Ethnic Studies	N\A	1.39	1.50	N\A
6	Business Management	3.18	3.29	3.49	5.00
7	Business and Office	N\A	3.47	N\A	N\A
8	Marketing and Distribution	3.35	3.79	N\A	N\A
9	Communications	2.25	2.13	2.30	N\A
10	Communication Technologies	3.00	3.50	N\A	N\A
11	Computer and Information Sciences	3.41	3.77	3.70	5.00
12	Consumer, Personal, and Miscellaneous Services	2.75	3.00	N\A	N\A
13	Education	2.59	2.70	3.03	3.24
14	Engineering	3.10	3.54	3.88	4.33
15	Engineering and Engineering - Related Technologies	3.66	3.18	N\A	N\A
16	Foreign Languages	2.67	1.85	1.71	2.00
17	Allied Health	4.03	3.89	4.14	N\A
18	Health Services	4.50	3.73	N\A	4.87
19	Home Economics	2.50	2.86	N\A	N\A
20	Vocational Home Economics	4.07	2.84	2.00	N\A
21	Industrial Arts	2.80	3.38	N\A	N\A
22	Law	3.13	3.75	3.81	4.50
23	Letters	2.29	2.31	1.93	2.00
24	Liberal\General Studies	2.55	1.58	N\A	N\A
25	Library and Archival Sciences	3.00	4.00	3.71	3.00
26	Life Sciences	3.00	2.56	3.30	3.94
27	Mathematics	3.50	4.71	3.33	3.67
30	Multi\Interdisciplinary Studies	2.00	2.06	1.00	N\A
31	Parks and Recreation	3.00	2.87	2.00	N\A
32	Basic Skills	N\A	5.00	N\A	N\A
34	Health and Related Activities	3.00	N\A	2.50	N\A
38	Philosophy and Religion	CB	1.91	1.50	2.00
39	Theology	3.00	3.00	N\A	N\A
40	Physical Sciences	2.88	3.15	3.40	3.82
41	Science Technologies	N\A	4.67	N\A	N\A
42	Psychology	3.00	2.50	2.95	3.00
43	Protective Services	3.44	2.87	3.00	N\A
44	Public Affairs	2.60	2.79	2.78	3.50
45	Social Sciences	2.00	2.03	1.70	2.20
46	Public Affairs	2.86	N\A	N\A	N\A
47	Social Sciences	3.30	N\A	N\A	N\A
48	Precision Production	3.35	3.00	N\A	N\A
49	Transportation and Material Moving	4.17	N\A	N\A	N\A
50	Visual and Performing Arts	1.63	2.07	1.58	2.50

N\A not applicable - no data reported

Means	Implications
$\geq$ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
$\leq$ 1.50	Many more graduates than available jobs.

Table 2: Demand Ratings for Specifc Programs at the Certificate/Associate Level According to CIP Numbers

CIP	Program Name	Average	Respondents
0.0000	Apprentice Training		
0.0000	Apprenticeship	2.50	2
1.0000	Agribusiness and Agricultural Production		
1.9999	Agricultural Technology	3.00	1
2.0000	Agricultural Sciences		
2.0404	Ornamental Horticulture Tech	5.00	1
2.0501	Crop and Soil Science	1.00	1
3.0000	Renewable Natural Resources		
3.0101	Renewable Natural Resources	2.00	3
3.0401	Forestry Production and Processing	2.41	5
4.0000	Architecture and Environmental Design		
4.0201	Architecture	4.00	1
4.0301	Urban Planning	4.00	1
4.0501	Interior Design	2.00	3
4.0601	Landscape Architecture	4.00	1
6.0000	Business Management		
6.0201	Accounting	3.80	10
6.0301	Banking and Finance	3.33	3
6.0401	Business Administration and Management	2.85	26
6.0701	Hotel\Motel Management	4.00	5
6.0704	Restaurant Management	5.00	1
6.0705	Transportation Management	4.00	1
6.1101	Labor\Industrial Relations	1.00	1
6.1401	Marketing Management	3.40	5
6.1601	Personnel Management	1.00	1
6.1701	Real Estate	2.00	2
6.1704	Real Estate Appraisal	3.00	1
6.1801	Small Business Management	2.00	1
6.2001	Trade and Industrial Supervision and Mgt.	4.00	1
6.9999	Data Processing and Management	3.00	1
7.0000	Business and Office		
7.0101	Accounting, Bookkeeping, and Related Programs	3.60	5
7.0102	Accounting and Computing	3.33	6
7.0103	Bookkeeper	2.00	1
7.0201	Banking and Related Financial Programs	3.00	1
7.0301	Business Data Processing and Related Programs	2.92	12
7.0302	Business Computer and Console Operations	3.75	4
7.0305	Business Data Programming	3.00	3
7.0306	Business Systems Analysis	3.00	1
7.0399	Business Data Processing and Related Programs	3.00	3
7.0401	Office Supervision and Management	3.70	10
7.0601	Secretarial and Related Programs	4.00	4
7.0602	Court Reporting	4.00	2
7.0603	Executive Secretary	4.00	11
7.0604	Legal Secretary	4.00	14
7.0605	Medical Secretary	4.00	15
7.0000	Business and Office		
7.0606	Secretarial Studies	4.00	12
7.0607	Stenographic	4.33	3
7.0608	Word Processing	3.78	18
7.0699	Secretarial and Related Programs	3.00	3
7.0701	Typing, General Office, and Related Programs	4.33	3
7.0702	Clerk Typist	3.20	5
7.0705	General Office Clerk	3.00	8
7.0707	Receptionist and Communication Systems Operat	5.00	1
7.0710	Typing	5.00	1
7.9999	Business and Office	2.00	1
8.0000	Marketing and Distribution		
8.0102	Fashion Merchandising	3.50	6
8.0402	Banking Marketing	2.00	1
8.0705	Retailing	4.00	4
8.0706	Sales	5.00	2
8.0799	General Marketing	3.17	6
8.0807	Office Products and Equipment Marketing	3.00	1
8.1104	Tourism	2.33	3
8.1199	Transportation and Travel Marketing	1.00	1
8.1203	Automotive Vehicles and Accessories Marketing	4.00	2
9.0000	Communications		
9.0201	Advertising	1.00	2
9.0401	Journalism	1.50	4
9.0501	Public Relations	3.00	1
9.0601	Radio\Television News Broadcast	4.00	1
9.9999	Communications	3.00	1
10.0000	Communication Technologies		
10.0103	Photography Technology	3.00	1
10.0199	Communication Technology	3.00	1
11.0000	Computer and Information Sciences		
11.0101	Computer and Information Science	3.38	8
11.0201	Computer Programming	2.75	4
11.0301	Data Processing	4.25	4
11.0401	Information Sciences and Systems	3.67	3
11.9999	Computer and Information Science	3.00	3
12.0000	Consumer, Personal, and Miscellaneous Services		
12.0301	Mortuary Science	3.50	2
12.0401	Personal Services	3.00	1
12.0403	Cosmetology	2.50	4
12.0499	Personal Services	2.00	1
13.0000	Education		
13.1001	Special Education	3.00	1
13.1202	Elementary Education	2.60	5
13.1204	Pre-Elementary Education	3.00	1
13.1205	Secondary Education	2.67	3

Means	Implications
$\geq$ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
$\leq$ 1.50	Many more graduates than available jobs.

Table 2: (Continued) Demand Ratings for Specifc Programs at the Certificate/Associate Level According to CIP Numbers

CIP	Program Name	Average	Respondents
13.0000	Education (continued)		
13.1302	Art Education	2.50	2
13.1303	Business Education	2.80	5
13.1305	English Education	2.00	2
13.1306	Foreign Languages Education	3.00	1
13.1309	Industrial Education	2.50	2
13.1311	Mathematics Education	3.00	1
13.1312	Music Education	2.00	1
13.1314	Physical Education	2.25	4
13.1316	Science Education	3.00	3
13.1399	Teacher Education, Specific Subject Areas	2.00	1
14.0000	Engineering		
14.0101	Engineering	3.40	5
14.0701	Chemical Engineering	4.00	1
14.0801	Civil Engineering	2.67	3
14.0901	Computer Engineering	3.00	1
14.1001	Electrical, Electronics, and Comm. Eng.	3.00	4
14.1701	Industrial Engineering	2.00	1
14.1901	Mechanical Engineering	3.25	4
14.9999	Engineering, Other	3.00	1
15.0000	Engineering and Engineering - Related Technologies		
15.0101	Architectural Design and Construction Tech.	3.17	6
15.0201	Civil Technology	3.00	2
15.0202	Drafting and Design Technology	4.35	17
15.0203	Surveying and Mapping Technology	5.00	2
15.0301	Computer Systems Technology	3.50	2
15.0303	Electronic Technology	3.47	17
15.0399	Electrical and Electronic Technology	2.67	3
15.0402	Computer Servicing Technology	3.50	4
15.0403	Electromechanical Technology	3.00	1
15.0404	Instrumentation Technology	3.00	1
15.0501	Air Conditioning, Heating, and Refrig. Tech.	3.00	6
15.0504	Sanitation Technology	4.00	1
15.0506	Water and Wastewater Technology	4.50	2
15.0601	Chemical Manufacturing Technology	4.50	2
15.0602	Food Processing Technology	3.00	1
15.0603	Industrial Technology	3.40	10
15.0604	Manufacturing Technology	4.60	5
15.0607	Plastics Technology	5.00	2
15.0610	Welding Technology	2.73	15
15.0699	Industrial Production Technologies	5.00	2
15.0701	Occupational Health and Safety Technology	2.00	1
15.0702	Quality Control Technology	4.50	2
15.0801	Aeronautical Technology	4.00	1
15.0803	Automotive Technology	4.29	14
15.0805	Mechanical Design Technology	4.00	1
15.0899	Mechanical and Related Technologies	3.00	2
15.0903	Petroleum Technology	2.00	1
15.9999	Engineering and Engineering-Related Tech.	3.00	2
16.0000	Foreign Languages		
16.0101	Foreign Languages, Multiple Emphasis	2.67	3
17.0000	Allied Health		
17.0101	Dental Assistant	4.25	4
17.0102	Dental Hygiene	4.80	5
17.0103	Dental Laboratory Technology	4.00	1
17.0201	Cardiopulmonary Technology	4.00	2
17.0205	Emergency Medical Technology-Ambulance	3.33	3
17.0206	Emergency Medical Technology-Paramedic	4.00	1
17.0208	Nuclear Medicine Technician	5.00	1
17.0209	Radiograph Medical Technology	3.86	7
17.0210	Respiratory Therapy Technician	4.17	6
17.0211	Surgical Technology	4.00	2
17.0212	Ultrasound Technology	3.00	1
17.0309	Medical Laboratory Technician	3.67	6
17.0310	Medical Technology	3.00	3
17.0401	Alcohol and Drug Abuse	5.00	1
17.0405	Mental Health\Human Services Assisting	3.00	1
17.0406	Mental Health\Human Services Technology	2.00	1
17.0503	Medical Assistant	4.00	8
17.0505	Medical Office Management	3.50	2
17.0506	Medical Record Technology	4.25	4
17.0599	Medical Transcriptionist	3.00	2
17.0602	Nurse Assisting	4.00	1
17.0605	Practical Nursing	4.36	14
17.0701	Opthalmic Dispensing	5.00	1
17.0705	Optometric Technology	5.00	1
17.0807	Occupational Therapy	4.00	1
17.0808	Occupational Therapy Assisting	4.00	1
17.0813	Physical Therapy	3.00	2
17.0815	Physical Therapy Assisting	5.00	1
17.0818	Respiratory Therapy	5.00	3
18.0000	Health Services		
18.0101	Audiology	5.00	1
18.0701	Health Care Administration	5.00	1
18.1020	Physical Medicine and Rehabilitation	3.00	1
18.1101	Nursing	4.67	21
18.1201	Optometry	3.00	1
18.1701	Pre Dental	1.50	2
18.1801	Pre Medical	3.00	1
18.1901	Pre Pharmacy	3.00	1
18.2001	Pre Veterinary	3.00	1
19.0000	Home Economics		
19.0503	Dietetics\Human Nutritional Services	3.00	1
20.0000	Vocational Home Economics		
20.0102	Child Development, Care, and Guidance	3.50	6
20.0201	Child Care and Guidance Management	4.00	2
20.0202	Child Care Technology	4.60	5
20.0401	Food Production, Service, and Management	4.00	2
20.0403	Chef\Cook	4.33	3

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 2: (Continued) Demand Ratings for Specifc Programs at the Certificate/Associate Level According to CIP Numbers

CIP	Program Name	Average	Respondents
20.0000	Vocational Home Economics (continued)		
20.0406	Food Service	4.25	8
20.0501	Home Furnish. & Equip., Mgt., Prod., & Serv.	3.00	1
21.0000	Industrial Arts		
21.0106	Graphic Arts	1.00	1
21.0108	Industrial Machine Tool	3.00	1
21.0109	Industrial Millwright	3.00	1
21.0110	Industrial Plumber \ Pipefitter	3.00	1
21.0111	Industrial Sheet Metal	4.00	1
22.0000	Law		
22.0102	Pre Law	3.00	1
22.0103	Legal Assistant	3.14	7
23.0000	Letters		
23.0101	English	2.50	4
23.1001	Speech, Debate, and Forensics	2.00	3
24.0000	Liberal\General Studies		
24.0101	Pre - Science	2.33	12
25.0000	Library and Archival Sciences		
25.0101	Library and Archival Science	3.00	1
26.0000	Life Sciences		
26.0101	Biology Science	3.00	3
26.9999	Pre-Professional Science	3.00	1
27.0000	Mathematics		
27.0101	Mathematics	3.50	2
30.0000	Multi\Interdisciplinary Studies		
30.0101	Biological and Physical Sciences	2.00	1
30.0401	Humanities and Social Sciences	2.00	2
30.9999	General Studies	2.00	1
31.0000	Parks and Recreation		
31.0201	Outdoor Recreation	3.00	1
31.0301	Parks and Recreation Management	3.00	1
34.0000	Health and Related Activities		
34.0101	Health Related Activities	3.00	1
38.0000	Philosophy and Religion		
39.0601	Theological Studies	1.50	2
40.0000	Physical Sciences		
40.0101	Liberal Arts Physical Science	3.00	1
40.0501	Chemistry	4.00	3
40.0601	Geology	2.00	1
40.0702	Oceanography	2.00	1
40.0801	Physics	3.00	1
42.0000	Psychology		
42.0101	Psychology	3.00	2
43.0000	Protective Services		
43.0102	Corrections	4.43	7
43.0103	Criminal Justice Administration	3.50	2
43.0104	Criminal Justice Studies	3.33	6
43.0105	Criminal Justice Technology	3.67	6
43.0107	Law Enforcement	3.30	10
43.0108	Law Enforcement Administration	2.00	1
43.0000	Protective Services (continued)		
43.0109	Security Services	2.00	1
43.0199	Criminal Justice - Protective Services	3.67	3
43.0201	Fire Science	2.50	4
44.0000	Public Affairs		
44.0401	Public Administration	3.00	1
44.0701	Social Work	2.89	9
45.0000	Social Sciences		
45.0101	Social Science	2.00	1
45.0601	Economics	1.00	2
45.0801	History	1.00	2
45.1001	Political Science and Government	2.00	1
45.1101	Sociology	2.00	1
46.0000	Public Affairs		
46.0201	Carpentry	3.00	1
46.0302	Electrical Technology	3.00	4
46.0502	Pipefitting and Steamfitting	3.00	1
46.9999	Industrial Construction	2.00	1
47.0000	Social Sciences		
47.0101	Electrical and Electronics Equipment Repair	4.00	1
47.0105	Industrial Electronics	3.00	1
47.0106	Appliance Service and Repair	2.00	1
47.0199	Radio & TV Servicing	3.00	1
47.0201	Refrigeration, Air Conditioning, Heating	3.50	4
47.0301	Industrial Maintenance and Repair	3.00	1
47.0302	Heavy Equipment Maintenance and Repair	3.00	8
47.0303	Industrial Equipment Maintenance and Repair	4.00	1
47.0602	Aircraft Mechanics	4.00	2
47.0603	Automotive Body Repair	2.67	3
47.0604	Automotive Mechanics	3.75	12
47.0605	Diesel Engine Mechanics	3.00	2
47.0606	Small Engine Repair	3.00	1
47.9999	General Technology	4.00	1
48.0000	Precision Production		
48.0101	Drafting	3.40	5
48.0102	Architectural Drafting	4.00	1
48.0105	Mechanical Drafting	3.43	7
48.0199	Tool and Die Drafter	4.00	1
48.0201	Graphic and Printing Communications	2.50	2
48.0203	Commercial Art	3.00	4
48.0402	Meat Cutter	3.00	1
48.0503	Machine Tool Operation\Machine Shop	3.55	20
48.0504	Metal Fabrication	2.00	1
48.0506	Sheet Metal	3.00	1
48.0507	Tool and Die Making	5.00	1
48.0508	Welding, Brazing, and Soldering	3.00	6
48.0604	Plastics	4.00	1
48.0701	Woodworking	2.00	1
49.0000	Transportation and Material Moving		
49.0102	Aviation Technology	4.00	3

Means	Implications
$\geq$ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
$\leq$ 1.50	Many more graduates than available jobs.

Table 2: (Continued) Demand Ratings for Specifc Programs at the Certificate/Associate Level According to CIP Numbers

CIP	Program Name	Average	Respondents
49.0000	Transportation and Material Moving (continued)		
49.0307	Maritime Engine Officer	5.00	2
49.9999	Transportation Training	3.00	1
50.0000	Visual and Performing Arts		
50.0201	Crafts	1.50	2
50.0301	Dance	1.00	2
50.0402	Graphic Design	2.00	1
50.0403	Illustration Design	3.00	1
50.0404	Industrial Design	3.00	1
50.0000	Visual and Performing Arts (continued)		
50.0501	Dramatic Arts	1.00	2
50.0701	Fine Arts	1.67	6
50.0708	Art - Painting & Drawing	1.00	1
50.0901	Music	1.50	2
50.0902	Music History and Appreciation	1.00	1
50.0904	Music Theory and Composition	1.00	1
50.0999	Jazz Studies	1.00	1

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 3: Demand Ratings for Specific Programs at the Bachelor Level According to CIP Numbers

CIP	Program Name	Average	Respondents
1.0000	Agribusiness and Agricultural Production		
1.0102	Agricultural Business	3.00	1
1.9999	Packaging	3.00	2
2.0000	Agricultural Sciences		
2.0303	Food Distribution	3.00	1
3.0000	Renewable Natural Resources		
3.0101	Natural Resources	2.00	2
3.0202	Conservation	2.00	1
3.0302	Fisheries	2.00	2
3.0501	Forestry and Related Sciences	3.33	6
3.9999	Planning and Resource Management	2.50	2
4.0000	Architecture and Environmental Design		
4.0201	Architecture	2.00	1
4.0301	Planning	2.00	4
4.0401	Environmental Design	2.00	1
4.0501	Interior Design	2.25	8
5.0000	Area and Ethnic Studies		
5.0101	African Studies	1.00	1
5.0102	American Studies	1.20	5
5.0110	Russian and Slavic Studies	1.00	1
5.0199	International and Area Studies	2.00	5
5.0201	Black Studies	1.00	3
5.0203	Hispanic-American Studies	1.33	3
6.0000	Business Management		
6.0101	General Business	2.93	8
6.0200	Business Administration/Accounting	4.00	1
6.0201	Accounting	4.33	27
6.0301	Banking and Finance	3.48	21
6.0401	Business Administration and Management	2.93	42
6.0403	Product Management	3.50	2
6.0499	Business Administration Insurance	3.00	7
6.0501	Business Economics	2.82	11
6.0701	Hotel/Motel Management	4.75	4
6.0702	Recreation Management	3.00	2
6.0801	Insurance and Risk Management	4.00	1
6.0901	International Business Management	1.67	3
6.1101	Labor/Industrial Relations	2.00	2
6.1201	Management Information Systems	2.00	1
6.1301	Business Statistics	3.75	4
6.1302	Operations Research	3.40	5
6.1399	Management Science, Other	2.00	1
6.1401	Marketing Management	3.73	26
6.1409	Marketing	3.75	4
6.1501	Organizational Behavior	2.67	3
6.1601	Personnel Management	2.40	10
6.1701	Real Estate	2.60	5
6.0000	Business Management (continued)		
6.1801	Small Business Management	2.00	1
6.2001	Trade and Industrial Supervision and Mgt.	3.00	7
6.9999	Business Computer Systems	3.15	13
7.0000	Business and Office		
7.0306	Business Systems Analysis	3.00	1
7.0399	Business/Data Processing	4.00	1
7.0401	Office Services	3.44	9
7.0602	Court Reporting	5.00	1
7.0603	Executive Assistant	3.00	2
7.0604	Legal Assistant	4.00	1
7.0608	Word Processing	3.00	1
7.9999	Records Management Systems	3.00	1
8.0000	Marketing and Distribution		
8.0102	Fashion Merchandising	3.71	7
8.0201	Business Administration/Marketing	3.00	1
8.0702	Industrial Sales	4.00	3
8.0705	Retailing	4.00	3
8.0706	Sales	4.00	1
8.0901	Hospitality and Recreation Marketing	5.00	2
8.0903	Marketing of Recreational Services	3.50	2
8.1001	Insurance Marketing	4.00	2
8.1104	Tourism and Travel	3.00	1
8.1201	Petroleum Distribution	3.00	1
8.9999	Food Systems Economy and Management	3.00	1
9.0000	Communications		
9.0101	Communication, General	2.00	5
9.0201	Advertising	1.86	7
9.0401	Journalism	2.08	12
9.0501	Public Relations	1.67	3
9.0601	Communications - Radio\Television	3.00	1
9.0701	Broadcasting	1.78	9
9.9900	Communications - Graphic Arts	4.00	1
9.9999	Mass Communications Concentration	2.86	7
10.0000	Communication Technologies		
10.0100	Communicative Technology	3.00	1
10.0104	Radio/Television Production	3.00	1
10.0199	Scientific & Technical Communications	4.00	2
11.0000	Computer and Information Sciences		
11.0101	Computer and Information Sciences	3.61	28
11.0301	Data Processing	3.20	5
11.0401	Information Sciences and Systems	4.00	1
11.0501	Systems Analysis	5.00	1
11.9999	Accounting Information Systems	4.25	12
12.0000	Consumer, Personal, and Miscellaneous Services		
12.0301	Mortuary Science	3.00	3

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 3: (Continued) Demand Ratings for Specific Programs at the Bachelor Level According to CIP Numbers

CIP	Program Name	Average	Respondents
13.0000	Education		
13.0101	Education	2.00	5
13.1003	Education of the Deaf and Hearing Impaired	4.00	3
13.1005	Education of the Emotionally Handicapped	4.43	7
13.1006	Education of the Mentally Handicapped	4.38	8
13.1008	Education of the Physically Handicapped	3.75	4
13.1009	Education of the Visually Handicapped	3.75	4
13.1011	Specific Learning Disabilities	4.50	2
13.1012	Speech Correction	3.43	7
13.1101	Student Counseling and Personnel Services	2.50	4
13.1201	Adult and Continuing Education	1.50	2
13.1202	Elementary Education	2.25	20
13.1203	Junior High Education	3.00	1
13.1204	Education - Early Childhood	2.50	6
13.1205	Secondary Education	2.50	6
13.1301	Agricultural Education	3.00	2
13.1302	Art Education	1.76	17
13.1303	Business Education	2.95	22
13.1306	Foreign Education	2.14	14
13.1305	English Education	2.00	6
13.1307	Health Education	2.18	11
13.1308	Home Economics Education	2.13	8
13.1309	Industrial Arts Education	2.59	17
13.1310	Marketing and Distributive Education	3.25	4
13.1311	Mathematics Education	3.70	10
13.1312	Music Education	2.71	17
13.1314	Physical Education	1.67	30
13.1315	Reading Education	3.00	2
13.1316	Science Education	3.42	24
13.1317	Social Science Education	1.50	8
13.1318	Social Studies Education	1.88	8
13.1319	Technical Education	3.20	5
13.1320	Trade and Industrial Education	2.00	1
13.1399	Teacher Education, Specific Subject Areas	3.43	7
13.9999	Mental Retardation Education	4.00	1
14.0000	Engineering		
14.0101	Engineering (Consortium)	3.70	10
14.0201	Aircraft Engineering	3.00	1
14.0701	Chemical Engineering	3.57	14
14.0801	Civil Engineering	3.06	16
14.0901	Computer Systems Engineering	3.00	1
14.1001	Electrical Engineering	3.79	24
14.1301	Engineering Science	4.00	1
14.1401	Environmental Health Engineering	4.50	2
14.1501	Geological Engineering	3.00	8
14.1701	Industrial Engineering	3.29	7
14.1801	Materials Engineering	4.33	3
14.1901	Mechanical Engineering	3.65	26
14.2001	Metallurgical Engineering	4.00	11
14.2101	Mining and Mineral Engineering	3.33	6
14.0000	Engineering (continued)		
14.2501	Petroleum Engineering	2.50	4
14.9999	Paper Engineering	3.33	3
15.0000	Engineering and Engineering - Related Technologies		
15.0101	Architectural Design and Construction Tech.	1.00	1
15.0201	Civil Technology	4.50	2
15.0202	Drafting and Design Technology	3.00	2
15.0203	Surveying and Mapping Technology	5.00	1
15.0302	Electrical Technology	3.00	4
15.0303	Electronic Technology	2.50	2
15.0399	Electrical and Electronic Technologies	3.00	3
15.0401	Biomedical Equipment Technology	3.00	2
15.0403	Electromechanical Technology	3.00	4
15.0404	Instrumentation Technology	4.00	1
15.0503	Energy Management	3.00	2
15.0504	Sanitation Technology	3.67	3
15.0505	Alternate Energy	2.00	2
15.0599	Environmental Control Technologies	4.00	2
15.0603	Industrial Technology	2.38	8
15.0604	Manufacturing Technology	3.00	4
15.0607	Plastic Technology	4.00	3
15.0610	Welding Technology	4.00	1
15.0699	Industrial Production Technologies	4.25	4
15.0701	Occupational Safety and Health Technology	4.00	2
15.0801	Aeronautical Technology	3.00	1
15.0803	Automotive Technology	4.00	1
15.0805	Mechanical Design Technology	2.00	1
15.0899	Mechanical Engineering Technology	3.00	3
15.9999	Mining and Petroleum Technologies	3.00	2
16.0000	Foreign Languages		
16.0301	Chinese	2.00	1
16.0302	Japanese	3.00	1
16.0402	Russian	1.75	4
16.0403	Slavic Languages (other than Russian)	1.50	8
16.0501	German	1.88	17
16.0601	Greek (Classical)	1.20	5
16.0602	Greek (modern)	1.20	5
16.0901	French	1.95	22
16.0902	Italian	1.50	4
16.0903	Latin	1.43	7
16.0905	Spanish	2.50	22
16.1101	Arabic	1.75	4
16.1102	Hebrew	1.25	4
16.9999	Language and International Trade	1.50	4
17.0000	Allied Health		
17.0205	Emergency Medical Technician	3.00	1
17.0208	Nuclear Medical Technology	5.00	1
17.0209	Radiograph Medical Technology	4.75	4
17.0301	Blood Bank Technology	5.00	1
17.0309	Medical Laboratory Technology	4.00	1

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 3: (Continued) Demand Ratings for Specific Programs at the Bachelor Level According to CIP Numbers

CIP	Program Name	Average	Respondents
17.0000	Allied Health (continued)		
17.0310	Medical Technology	3.50	14
17.0401	Alcohol and Drug Abuse	5.00	1
17.0499	Mental Health/Human Services	4.00	3
17.0508	Physicians Assistant	5.00	1
17.0599	Sports Medicine	1.50	2
17.0799	Pre Optometry	3.00	2
17.0804	Exercise Physiology	3.00	2
17.0806	Music Therapy	3.00	1
17.0807	Occupational Therapy	4.50	8
17.0813	Physical Therapy	4.67	6
17.0816	Recreational Therapy	4.00	2
17.0821	Speech Language Pathology Audiology	3.00	3
18.0000	Health Services		
18.0199	Audiology and Speech Pathology	3.00	1
18.0299	Basic Clinical Health Sciences	1.00	1
18.0401	Dentistry	4.00	1
18.0701	Health Care Administration	2.00	5
18.0703	Medical Records Administration	4.00	2
18.0799	Health Sciences Administration	4.00	1
18.0901	Medical Laboratory	3.50	2
18.1008	Geriatrics	4.00	1
18.1099	Medicine 3-1 Program	4.00	1
18.1101	Professional Nursing	4.86	21
18.1401	Pharmacy	4.75	4
18.1701	Pre-Dentistry	3.60	5
18.1801	Pre-Medicine	3.80	5
18.1901	Pre-Pharmacy	2.33	3
18.9999	Athletic Training	2.78	9
19.0000	Home Economics		
19.0101	General Home Economics	2.89	9
19.0200	Home Economics in Business	1.00	1
19.0501	Food Sciences and Human Nutrition	3.07	14
19.0503	Dietetics/Human Nutritional Services	3.75	4
19.0701	Individual and Family Development	2.00	4
19.0704	Family Relations	2.00	1
19.0705	Geriatric Services	3.00	1
19.0901	Design and Merchandising	2.80	5
19.0902	Fashion Design	3.00	1
19.0903	Textiles and Clothing, Retail	3.50	2
19.9999	Home Economics and Related Occupation	2.00	2
20.0000	Vocational Home Economics		
20.0102	Child Development, Care, and Guidance	3.00	6
20.0103	Clothing, Textiles & Fashion Merchand.	2.80	5
20.0104	Consumer Education	2.11	9
20.0299	Child Care and Guidance Management Services	4.00	1
20.0401	Food Production, Management, and Service	4.00	1
20.0406	Food Service	4.00	3
21.0000	Industrial Arts		
21.0101	Industrial Arts	3.00	1
21.0102	Construction	4.00	1
21.0103	Drafting and Design	4.00	1
21.0105	Energy, Power, and Transportation	3.00	1
21.0106	Graphic Arts	4.00	1
21.0199	Metalworking	3.00	3
22.0000	Law		
22.0102	Pre-Law	3.00	1
22.0103	Legal Assisting	4.00	2
22.0199	Legal Administration	4.00	1
23.0000	Letters		
23.0101	English	2.61	31
23.0201	Classics	1.00	4
23.0601	Language Arts	2.33	3
23.0701	American Literature	2.00	1
23.0801	Literature, English	1.60	5
23.1001	Speech, Debate, and Forensics	2.20	5
23.1101	Technical and Business Writing	3.00	1
23.9999	Communication Arts	2.00	1
24.0000	Liberal\General Studies		
24.0101	Liberal\General Studies	1.86	7
24.0199	Behavioral Science	1.20	5
25.0000	Library and Archival Sciences		
25.0401	Library Science	4.00	3
26.0000	Life Sciences		
26.0101	Biology	2.50	34
26.0201	Biochemistry and Biophysics	3.20	15
26.0301	Botany	2.00	1
26.0307	Plant Physiology	1.50	2
26.0501	Microbiology	2.40	5
26.0602	Biometrics and Biostatistics	1.50	2
26.0603	Ecology	2.33	6
26.0607	Marine Biology	2.00	2
26.0701	Zoology	2.00	1
26.0706	Physiology Animal and Human	3.00	2
26.9999	General Science	2.50	2
27.0000	Mathematics		
27.0101	General Mathematics	3.32	25
27.0301	Applied Mathematics	3.00	1
27.9999	Mathematics	4.00	4
27.0501	Statistics	4.00	1
30.0000	Multi\Interdisciplinary Studies		
30.0101	Biological and Physical Sciences	2.67	6
30.0301	Engineering and Other Disciplines	3.00	1
30.0401	Humanities and Social Sciences	1.80	10
30.0501	Peace and Conflict Studies	1.00	3
30.0701	Women's Studies	1.25	4
30.9999	Multi-Interdisciplinary Studies	2.56	9

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 3: (Continued) Demand Ratings for Specific Programs at the Bachelor Level According to CIP Numbers

CIP	Program Name	Average	Respondents
31.0000	Parks and Recreation		
31.0101	Parks and Recreation	4.00	1
31.0201	Outdoor Recreation	3.00	2
31.0301	Parks and Recreation Management	2.86	7
31.9999	Therapeutic Recreation	3.00	1
32.0000	Basic Skills		
32.0104	Computational Skills	5.00	2
38.0000	Philosophy and Religion		
38.0101	Philosophy	1.64	14
38.0201	Religion	2.17	6
38.9999	Contemporary Ministries	2.67	3
39.0000	Theology		
39.0601	Theological Studies	4.00	1
39.9999	Religion and Theology	2.00	1
40.0000	Physical Sciences		
40.0101	Physical Sciences	2.86	7
40.0501	Chemistry, General	3.67	3
40.0502	Analytical Chemistry	3.17	6
40.0503	Inorganic Chemistry	3.17	6
40.0504	Organic Chemistry	3.17	6
40.0506	Physical Chemistry	3.80	5
40.0599	Business Oriented Chemistry	3.00	1
40.0601	Geology	2.42	24
40.0603	Geophysics and Seismology	3.00	9
40.0703	Earth Science	2.50	12
40.0801	Physics	3.52	27
40.9999	Health Sciences	4.00	1
41.0000	Science Technologies		
41.0301	Chemical Technology	4.67	3
42.0000	Psychology		
42.0101	Psychology	2.44	27
42.0401	Community Psychology	3.00	1
42.0801	Experimental Psychology	4.00	1
42.0901	Industrial and Organizational Psychology	3.00	1
42.1601	Social Psychology	2.50	2
42.9999	Biopsychology	2.00	2
43.0000	Protective Services		
43.0101	Correctional Administration	3.00	4
43.0102	Corrections	3.00	1
43.0103	Criminal Justice Administration	2.00	2
43.0104	Criminal Justice Studies	2.67	6
43.0107	Law Enforcement	3.33	3
43.0109	Security Services	3.00	2
43.0199	Criminal Justice/Corrections	3.00	5
44.0000	Public Affairs		
44.0101	Public Affairs	2.33	3
44.0201	Community Services	3.00	1
44.0401	Public Administration	2.29	14
44.0501	Public Policy Studies	3.00	3
44.0701	Social Work	3.22	18
45.0000	Social Sciences		
45.0101	Social Science	1.94	16
45.0201	Anthropology	1.38	13
45.0401	Criminology	3.50	2
45.0601	Economics	2.33	3
45.0701	Geography	2.00	5
45.0801	History	1.81	27
45.0901	International Relations	1.67	3
45.1101	Sociology	2.00	24
45.1201	Urban Studies	1.50	4
45.9999	Human Services	2.20	5
48.0000	Precision Production		
48.0201	Graphic and Printing Communications	4.00	1
48.0203	Commercial Art	2.00	1
49.0000	Transportation and Material Moving		
49.0104	Aviation Management	3.50	2
50.0000	Visual and Performing Arts		
50.0202	Ceramics	2.00	1
50.0204	Fiber\Textiles\Weaving	2.00	1
50.0206	Metal\Jewelry	2.00	1
50.0299	Wood Crafts	2.00	1
50.0301	Dance	2.40	5
50.0401	Art and Design	3.00	3
50.0402	Graphic Design	3.00	1
50.0403	Illustration Design	3.00	1
50.0404	Industrial Design	4.00	1
50.0499	Metalsmithing	2.67	3
50.0501	Dramatic Arts	2.05	21
50.0602	Cinematography\Film	2.33	3
50.0605	Photography	2.00	6
50.0701	Fine Arts	1.84	19
50.0703	Art History and Appreciation	1.20	5
50.0705	Drawing	1.75	4
50.0706	Intermedia	1.00	2
50.0708	Painting	1.50	4
50.0709	Sculpture	1.43	7
50.0799	Art	2.00	2
50.0801	Graphic Arts Technology	2.00	1
50.0901	Teaching, Music	2.53	17
50.0902	Music History and Appreciation	1.00	1
50.0903	Music Performance	2.29	7
50.0904	Music Theory and Composition	3.00	1

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 4: Demand Ratings for Specific Programs at the Masters Level According to CIP Numbers

CIP	Program Name	Average	Respondents
3.0000	Renewable Natural Resources		
3.0501	Forestry	3.50	2
4.0000	Architecture and Environmental Design		
4.0301	Urban Planning	2.00	4
4.0501	Interior Design	2.33	3
5.0000	Area and Ethnic Studies		
5.0102	American Studies	1.33	3
5.0105	Eastern European Studies	1.67	3
6.0000	Business Management		
6.0101	Business Management, General	3.33	3
6.0201	Accounting	4.00	15
6.0301	Banking and Finance	3.86	7
6.0401	Business Admin. and Management, General	3.14	19
6.0501	Business Economics	3.00	3
6.0701	Hotel, Rest and Institt. Manag.	4.00	1
6.0705	MLM - Transportation Management	4.00	1
6.1101	Industrial Relations	3.00	3
6.1302	Operations Research	3.50	6
6.1401	Marketing Management	3.43	7
6.1501	Organizational Behavior	2.75	4
6.1601	Personnel- Human Relations	4.00	1
6.1901	Taxation	4.33	3
6.2001	Trade and Industrial Supervision & Mgmt	4.00	1
6.9999	Business and Management, Other	3.17	12
9.0000	Communications		
9.0101	Communication	2.16	10
11.0000	Computer and Information Sciences		
11.0101	Computer and Information Sciences	3.62	10
13.0000	Education		
13.0101	Education, General	3.44	13
13.0201	Bilingual-Bicultural Education	3.75	4
13.0301	Curriculum and Instruction	2.67	6
13.0401	Education Administration	3.13	20
13.0501	Educational Media	3.33	3
13.0603	Evaluation Research	2.67	3
13.0604	Ed. Testing, Evaluation, and Measurement	4.00	1
13.0801	Educational Psychology	3.14	7
13.0901	Social Foundations	2.67	3
13.1001	Special Education, General	3.45	11
13.1002	Teaching Economically and Ed. Disadvantaged	4.00	1
13.1005	Teaching the Emotionally Impaired	5.00	2
13.1006	Teaching the Mentally Impaired	5.00	2
13.1011	Specific Learning Disabilities	5.00	3
13.1101	Guidance and Counseling	2.50	6
13.1102	Elementary Education	3.00	1
13.1201	Adult and Continuing Education	3.00	3
13.1202	Elementary Education	2.55	11
13.1203	Junior High Education	2.67	3
13.1204	Early Childhood Education	2.88	8
13.1205	Secondary Education	3.00	4
13.1299	Teacher Ed. General Progams, Other	3.00	2
13.1302	Art Education	2.00	5
13.0000	Education (continued)		
13.1303	Business Education	3.00	3
13.1305	English Education	2.50	10
13.1306	Foreign Language	3.00	5
13.1307	Health Education	2.00	2
13.1309	Industrial Arts Education	3.14	7
13.1311	Mathematics Education	3.67	6
13.1312	Music Education	3.00	5
13.1314	Physical Education	1.67	9
13.1315	Reading Education	3.25	12
13.1316	Science Education	3.50	8
13.1317	Social Science Education	2.00	2
13.1318	Social Studies Education	2.33	3
13.1319	Technical Education	3.67	3
14.0000	Engineering		
14.0701	Chemical Engineering	4.14	7
14.0801	Civil Engineering	3.43	7
14.0901	Computer Engineering	4.20	5
14.1001	Electrical Engineering	3.78	9
14.1101	Engineering Mechanics	3.50	2
14.1501	Geological Engineering	4.00	2
14.1701	Industrial Engineering	3.33	6
14.1901	Mechanical Engineering	4.11	9
14.2001	Metallurgical Engineering	4.17	6
14.2101	Mining Engineering	4.00	2
14.9999	Electronics and Computer Control Systems	4.00	4
16.0000	Foreign Languages		
16.0402	Russian	1.67	3
16.0501	German	1.33	3
16.0601	Greek	1.00	3
16.0901	French	1.75	4
16.0902	Italian	1.33	3
16.0903	Latin	1.00	3
16.0905	Spanish	2.25	4
16.9999	Near Eastern Languages	2.60	5
17.0000	Allied Health		
17.0310	Medical Technology	3.67	3
17.0804	Exercise Science	3.00	1
17.0806	Music Therapy	3.00	1
17.0807	Occupational Therapy	4.33	3
17.0821	Speech and Language Pathology	5.00	2
17.0899	Rehabilitation Services, Other	4.00	2
18.0000	Health Services		
18.0103	Audiology and Speech Sciences	4.25	8
18.0203	Clinical Microbiology	3.00	2
18.1003	Anesthesilogy	4.67	3
18.1009	Immunology	4.40	5
18.1018	Pathology	4.00	1
18.1099	Medicine, Other	3.00	1
18.1101	Nursing	4.62	31
18.1401	Pharmacy	4.21	14

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Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 4: (Continued) Demand Ratings for Specific Programs at the Masters Level According to CIP Numbers

CIP	Program Name	Average	Respondents
18.0000	Health Services (continued)		
18.9999	Health Sciences, Other	3.00	3
19.0000	Home Economics		
19.0101	Home Economics, General	2.25	4
19.0501	Nutrition and Food Sciences	3.67	3
19.0701	Individual and Family Development, General	2.67	3
19.0901	Textiles and Clothing, General	2.33	3
20.0000	Vocational Home Economics		
20.0104	Consumer Education	2.00	3
22.0000	Law		
22.0101	Law	3.70	17
23.0000	Letters		
23.0101	English, General	2.38	8
23.0201	Classics	1.00	3
23.0301	Comparative English	1.40	5
23.0501	English - Creative Writing	3.33	3
23.0601	Linguistics	1.33	3
23.0801	Literature, English	2.00	3
23.1001	Public Communication	2.00	1
23.9999	Letters, Other	1.00	1
25.0000	Library and Archival Sciences		
25.0101	Library Science, General	3.75	4
25.0401	Library Science	4.00	2
25.0501	Museum Practice	3.00	1
26.0000	Life Sciences		
26.0101	Biological Sciences, General	2.80	10
26.0201	Biochemistry and Biophysics	3.50	4
26.0301	Botany, General	2.50	4
26.0302	Bacteriology	3.50	4
26.0501	Microbiology	3.75	4
26.0601	Anatomy	3.75	4
26.0701	Zoology, General	2.67	3
26.0705	Pharmacology, Human and Animal	4.25	4
26.0706	Physiology, Human and Animal	3.67	3
27.0000	Mathematics		
27.0101	Mathematics, General	3.33	9
27.0401	Pure Mathematics	3.33	3
27.0501	Mathematical Statistics	3.33	3
30.0000	Multi\Interdisciplinary Studies		
30.0401	Humanities and Social Sciences	1.00	3
31.0000	Parks and Recreation		
31.0301	Parks and Recreation Management	2.00	2
34.0000	Health and Related Activities		
34.0199	Health Related Activities, General	2.50	2
38.0000	Philosophy and Religion		
38.0101	Philosophy	1.50	4
40.0000	Physical Sciences		
40.0501	Chemistry, General	4.00	2
40.0502	Analytical Chemistry	3.75	4
40.0503	Inorganic Chemistry	3.75	4
40.0504	Organic Chemistry	3.75	4
40.0000	Physical Sciences (continued)		
40.0506	Physical Chemistry	3.75	4
40.0599	Chemistry, Other	3.50	2
40.0601	Geology	2.25	8
40.0603	Geophysics and Seismology	3.00	2
40.0703	Earth Science	3.00	1
40.0801	Physics, General	3.36	11
42.0000	Psychology		
42.0101	Psychology, General	2.00	7
42.0201	Clinical Psychology	3.75	4
42.0601	Counseling Psychology	3.00	1
42.0701	Developmental Psychology	3.00	1
42.0901	Industrial Psychology	4.00	1
42.1101	Physiological Psychology	4.00	1
42.1601	Social Psychology	4.00	1
42.9999	Psychology, Other	3.00	3
43.0000	Protective Services		
43.0104	Criminal Justice	3.00	5
44.0000	Public Affairs		
44.0101	Public Affairs, General	4.00	1
44.0201	Community Leadership	3.00	2
44.0401	Public Administration	2.25	8
44.0701	Social Work	3.14	7
45.0000	Social Sciences		
45.0101	Social Sciences, General	1.00	1
45.0201	Anthropology	1.25	4
45.0401	Criminology, Criminal Justice	4.00	1
45.0601	Economics	3.00	2
45.0701	Geography	2.00	6
45.0801	History	1.20	5
45.1001	Political Science and Government	1.14	7
45.1101	Sociology	1.40	10
50.0000	Visual and Performing Arts		
50.0501	Dramatic Arts	2.14	7
50.0701	Art	1.20	5
50.0703	Art History	1.00	3
50.0708	Painting	1.33	3
50.0709	Sculpture	1.33	3
50.0799	Art	2.00	2
50.0901	Music	1.33	3
50.0903	Music (Performing, Composition, Theory)	1.80	5

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Table 5: Demand Ratings for Specific Programs at the Doctoral/Professional Level According to CIP Numbers

CIP	Program Name	Average	Respondents
6.0000	Business Management		
6.1302	Operations Research	5.00	1
11.0000	Computer and Information Sciences		
11.0101	Computer Science, General	5.00	1
13.0000	Education		
13.0301	Curriculum and Instruction	3.00	1
13.0401	Education Administration, General	3.20	5
13.0406	College and University Administration	3.00	1
13.0604	Ed. Testing, Evaluation, and Measurement	4.00	1
13.0801	School Psychology	4.57	7
13.1001	Special Education, General	4.00	2
13.1101	Student Counseling and Personnel Services	3.00	2
13.1299	Teacher Education, General Programs, Other	3.00	1
13.1309	Industrial Arts Education	4.00	1
13.1312	Music Education	4.00	1
13.1314	Physical Education	1.00	1
13.1316	Science Education	4.00	1
13.1318	Social Studies Education	1.00	1
13.1319	Technical Education	1.00	2
13.9999	Teacher Education, Other	1.50	2
14.0000	Engineering		
14.0701	Chemical Engineering	4.00	2
14.0801	Civil Engineering	3.50	2
14.0901	Computer Engineering	4.50	2
14.1001	Electrical Engineering	4.50	2
14.1701	Industrial Engineering	4.50	2
14.1901	Mechanical Engineering	4.50	4
14.2001	Metallurgical Engineering	4.50	4
16.0000	Foreign Languages		
16.9999	Modern Language	2.00	2
18.0000	Health Services		
18.1009	Immunology	5.00	2
18.1018	Pathology	5.00	2
18.1099	Medicine, Other	4.50	2
18.1101	Nursing, General	5.00	2
18.1105	Nursing Administration	4.50	2
18.1201	Optometry	5.00	1
18.1401	Pharmacy	5.00	4
22.0000	Law		
22.0101	Law, First Professional	4.50	2
23.0000	Letters		
23.0101	English, General	2.00	2
23.0801	Literature, English	2.00	2
23.9999	Literary Criticism	2.00	2
25.0000	Library and Archival Sciences		
25.0101	Library and Archival Sciences, General	3.50	2
25.0501	Museum Practice	2.00	1
26.0000	Life Sciences		
26.0101	Biological Sciences, General	3.50	4
26.0201	Biochemistry and Biophysics	3.50	2
26.0301	Botany, General	3.00	1
26.0302	Bacteriology	4.50	2
26.0501	Microbiology	4.50	2
26.0601	Anatomy	3.50	2
26.0705	Pharmacology, Human and Animal	5.00	2
26.0706	Physiology, Human and Animal	4.00	1
27.0000	Mathematics		
27.0101	Mathematics, General	3.67	3
38.0000	Philosophy and Religion		
38.0101	Philosophy	2.00	2
40.0000	Physical Sciences		
40.0501	Chemistry, General	3.80	5
40.0502	Analytical Chemistry	4.00	2
40.0503	Inorganic Chemistry	4.00	2
40.0504	Organic Chemistry	4.00	2
40.0506	Physical Chemistry	4.00	2
40.0601	Geology	3.50	2
40.0801	Physics, General	3.50	2
42.0000	Psychology		
42.0101	Psychology, General	3.00	2
42.0201	Clinical Psychology	3.50	2
42.0701	Developmental Psychology	3.00	1
42.0901	Industrial Psychology	3.00	2
42.1101	Physiological Psychology	3.00	2
42.1601	Social Psychology	3.00	2
42.9999	Cognitive Psychology	2.50	2
44.0000	Public Affairs		
44.0701	Social Work, General	3.50	6
45.0000	Social Sciences		
45.0201	Anthropology	2.00	2
45.0601	Economics	3.00	2
45.0801	History	2.00	2
45.1001	Political Science and Government	2.00	2
45.1101	Sociology	2.00	2
50.0000	Visual and Performing Arts		
50.0501	Dramatic Arts	2.50	2

Means	Implications
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.